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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,397	08/09/2001	Yuan-Chi Chang	YOR9-2001-0287 (8728-514)	4473
46069	7590 03/03/2006		EXAM	INER
F. CHAU & 130 WOODB	ASSOCIATES, LLC		EHICHIOYA, FRED I	
	7, NY 11797		ART UNIT	PAPER NUMBER
			2162	

DATE MAILED: 03/03/2006

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7:	90 07/13/2005		EXAM	INER
F. CHAU & A	ASSOCIATES, LLP		EHICHIOY	A, FRED I
Suite 501 1900 Hempstea	·		ART UNIT	PAPER NUMBER
East Meadow			2162	· · ·
New York, NY 11554			DATE MAILED: 07/13/2009	,

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RECEIVED OIPENAP

	Application No.	Applicant(s)			
	09/925,397	CHANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Fred I. Ehichioya	2162			
The MAILING DATE of this communication a		the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above its less than thirty (30) days, a r If NO period for reply is specified above in maximum statutory perion. Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the materians and patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15	5 April 2005.				
·— ·	his action is non-final.	•			
3) Since this application is in condition for allow		ers, prosecution as to the merits is			
closed in accordance with the practice unde					
Disposition of Claims		,			
•	antin a				
4) ⊠ Claim(s) <u>20 - 39</u> is/are pending in the applic					
4a) Of the above claim(s) is/are without the state of the state	irawii ironi consideration.				
5) Claim(s) is/are allowed.		•			
6)⊠ Claim(s) <u>20 - 39</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam	9) The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are: a) a	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
Applicant may not request that any objection to t	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a),			
Replacement drawing sheet(s) including the con	rection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docum	ents have been received.				
2. Certified copies of the priority docum	ents have been received in Ap	oplication No			
3. Copies of the certified copies of the p	-				
application from the International Bur		_			
* See the attached detailed Office action for a	list of the certified copies not	received.			
		SHAHID ALAM			
Attachment(s)		PRIMARY EXAMINER			
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/		formal Patent Application (PTO-152)			

1

Continuation of Attachment(s) 6). Other: Notice of Non-Compliant Amendment (37 CFR1.121).

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DETAILED ACTION

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1. Claims 20 - 39 are pending in this Office Action.

Response to Arguments

2. Applicants argue: "The MediaNet publication by Benitez et al. is unavailable as a reference" (page 7, paragraph 3).

Regarding applicants' argument: Examiner respectfully disagrees with the applicants. However, Examiner wishes state that Applicants' rebuttal to Examiner's response to Rule 131 Declaration on August 19, 2004 states that the applicants disagree with the Office Action and reserve the right to submit further evidence to clarify this issues. However examiner still has not received any evidence to this effect.

Therefore, Benitez et al. reference is still considered valid.

It is important to recognize just what constitutes sufficient evidence to establish common ownership at the time the invention was made. The common ownership must be shown to exist at the time the later invention was made. A statement of present common ownership is not sufficient. In re Onda, 229 USPQ 235 (Comm'r Pat. 1985).

3. In view of the above, the examiner contends that all limitations as recited in the claims have been addressed in this Office Action. For the above reasons, Examiner believed that rejection of the last Office action was proper.

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Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 20, 27 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Non-Patent Document: "Supporting Ranked Boolean Similarity Queries in MARS", IEEE Trans. on Knowledge and date Engineering, 10, Nov – Dec. 1998, Author: Ortega et al (hereinafter "Ortega") in view of Non-Patent Document: "MediaNet: A multimedia Information Network for Knowledge Representation", In Conference on Internet Multimedia Management Systems. Vol. 4210 (numbered Pages 1 – 12), Boston, MA, Nov. 2000, 1 ST/SPIE.00, Author: Benitez et al (hereinafter "Benitez").

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Regarding claims 20, 27 and 34, Ortega teaches a method for processing multimedia data in a computer system, comprising:

receiving as input a high-level concept describing data to be accessed (see section 1.2, page 4, paragraph 1, "A Boolean retrieval model (adapted for retrieval over images) is used to interpret the query being able to support such conceptual queries is critical for the versatility of large image databases.", and section 2, "In this section, we briefly describe the image features used ... Other image features are available, however we restrict ourselves to queries involving only to the above features in this paper.");

translating the high-level concept into a low-level query by using stored concept constructs which are defined using features derived from a plurality of application domains (see section 1.2, page 4, paragraph 1, "A Boolean retrieval model (adapted for retrieval over images) is used to interpret the query being able to support such conceptual queries is critical for the versatility of large image databases.", and section 2, "In this section, we briefly describe the image features used . . . Other image features are available, however we restrict ourselves to queries involving only to the above features in this paper.").

Ortega does not explicitly teach transferring the low-level query to one or more search engines and concept repository.

Benitez teaches transferring the low-level query to one or more search engines to access information using the low-level query (see section 3, page 6, "Typical content-based retrieval systems indexed . . . or the value for any low-level features in the image

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database" and section 4.2, page 9, "At this point and the results integrated into a unique list as described for visual queries"); and

a concept repository for storing and accessing the concept constructs (see Fig.4 and section 4.1, page 7, "For each application, the list of concepts and relationships in the MediaNet knowledge based should be representative of the content in the database and the goal of the application task.").

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine teaching of the cited references because Benitez's teaching of "transferring the low-level query to one or more search engines to access information using the low-level query" and "concept repository" would have allowed Ortega's system to integrate both conceptual and perceptual representations of knowledge to impact a broad range of applications that deal with multimedia content at semantic and perceptual levels. This improves the performance of multimedia retrieval applications by using query expansion, refinement and translation across multiple content modalities as suggested by Benitez (see Abstract).

6. Claims 21 – 26, 28 – 33, and 35 - 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ortega in view of Benitez and further in view of Non-Patent Document: "CAMEL: Concept Annotated image Libraries", In Storage and Retrieval for Image and Video Database, San Jose, CA, Jan. 2001. SPIE (numbered pages 1 – 12), Author: Natsev et al. (hereinafter "Natsev").

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Regarding claims 21, 28 and 35, Ortega teaches storing matching algorithms in a matching algorithm library module (see section 4.8, page 20 – section 4.8.3, page 25) and Benitez teaches storing the concept constructs in a concept library module (see Fig.4 and section 4.1, page 7, "For each application, the list of concepts and relationships in the MediaNet knowledge based should be representative of the content in the database and the goal of the application task.").

Ortega or Benitez does not explicitly teach storing the features in a feature library module; and storing constraints in a constraint library module.

However, Natsev further teaches storing the concept constructs in a concept library module (see section 1.2, "The concept cataloguing, or learning, phase is used to define visual concepts and build a concept library. Concepts are defined The concept library is module for a persistent storage of concepts");

storing the features in a feature library module (see fig.3); and storing constraints in a constraint library module (see section 6, "Another improvement that we are considering is the introduction of spatial constraints in the query engine. For example, . . . , the corresponding document is ranked higher").

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine teaching of the cited references because Natsev's teaching of storing the concept constructs in a concept library module, storing the features in a feature library module and storing constraints in a constraint library module would have presented a new direction for improving current image query

system, namely focusing the query specification part as gateway to better performance and usability (see Natsev section 6) for the combination Ortega and Benitez's system.

Regarding claims 22, 29 and 36, Natsev teaches interfacing the library modules to the application domains (see fig.3 and section 4, "Fig.3 illustrates the architecture of the ..., as well as the Concept Library module").

Regarding claims 23, 30 and 37, Natsev teaches building a concept construct (see fig.1 and section 1.2, The concept cataloguing, or learning, phase is used to define visual concepts and build concept library. Concepts are defined . . . and to associate it with the given concept").

Regarding claims 24 and 31, Natsev teaches a method as defined in Claim 23, wherein the step of building a concept construct comprise combining one or more of the features with see section 1.2, The concept cataloguing, or learning, phase is used to define visual concepts and build concept library)

zero or more of the stored concept (see Fig.1 and section 1.2, "The concept library is a module for persistent storage of concept"). and

zero or more of the constraints (see section 6, "Another improvement that we are considering is the introduction of spatial constraint in query engine").

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Regarding claims 25 and 32, Ortega teaches a concept construct is represented using a hierarchical fuzzy graph data tree-structure comprising: nodes that correspond to child-concepts and a subset of the features; aggregation edges that correspond to parent-child relationships; and association edges that correspond to inter-sibling constraints (see sections 4.1 and 4.2, pages 10 and 11).

Regarding claims 26 and 33, Natsev teaches a method as defined in Claim 20, wherein the features are user defined (see section 2, "One of the most commonly used image features is color histogram, . . . places the burden on the user to specify weights for the different features").

Regarding claim 38, Natsev teaches a system as defined in Claim 34, wherein the translation engine further comprises an interpreter that translates the high level concept (see fig.1).

Regarding claim 39, Natsev teaches a system as defined in Claim 34, further comprises a search engine (see section 2, "the high-level approach that , there are some considerations that make certain query engines more suitable than others".

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Conclusion

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7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred I. Ehichioya whose telephone number is 571-272-4034. The examiner can normally be reached on M - F 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on 571-272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fred I. Ehichioya Patent Examiner Art Unit 2162

July 5, 2005

SHAHID ALAM SHAHID EXAMINER

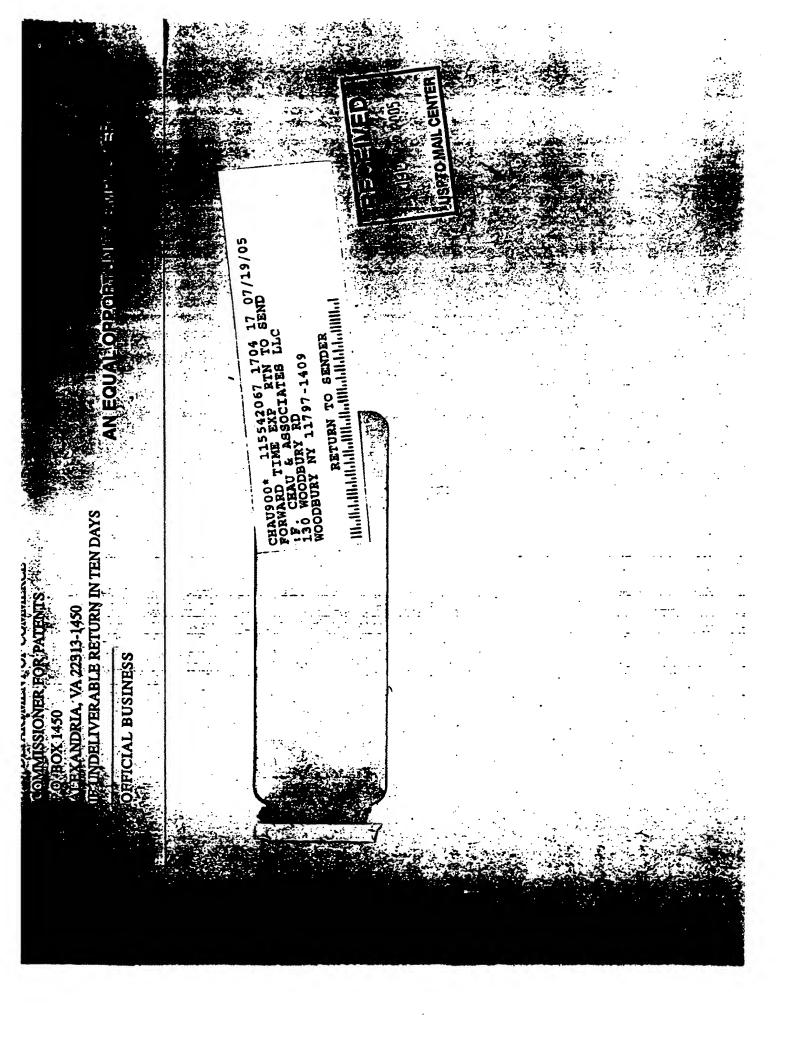
Notice of Non-Compliant Amendment (37 CFR 1.121)

Application No.	Applicant(s)	
09/925,397	CHANG ET AL.	
Examiner	Art Unit	
Fred I. Ehichioya	2162	

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

The amendment document filed on 25 April 2005 is considered non-compliant because it has failed to meet the

	uired.
THI	E FOLLOWING MARKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT: 1. Amendments to the specification: A. Amended paragraph(s) do not include markings. B. New paragraph(s) should not be underlined. C. Other
	 2. Abstract: A. Not presented on a separate sheet. 37 CFR 1.72. B. Other
	 3. Amendments to the drawings: A. The drawings are not properly identified in the top margin as "Replacement Sheet," "New Sheet," or "Annotated Sheet" as required by 37 CFR 1.121(d). B. The practice of submitting proposed drawing correction has been eliminated. Replacement drawings showing amended figures, without markings, in compliance with 37 CFR 1.84 are required. C. Other
	 4. Amendments to the claims: A. A complete listing of all of the claims is not present. B. The listing of claims does not include the text of all pending claims (including withdrawn claims) C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following status identifiers: (Original), (Currently amended), (Canceled), (Previously presented), (New), (Not entered), (Withdrawn) and (Withdrawn-currently amended). D. The claims of this amendment paper have not been presented in ascending numerical order. E. Other:
For http	r further explanation of the amendment format required by 37 CFR 1.121, see MPEP § 714 and the USPTO website at p://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/officeflyer.pdf.
TIN	ME PERIODS FOR FILING A REPLY TO THIS NOTICE:
1.	Applicant is given no new time period if the non-compliant amendment is an after-final amendment or an amendment filed after allowance. If applicant wishes to resubmit the non-compliant after-final amendment with corrections, the entire corrected amendment must be resubmitted within the time period set forth in the final Office action.
2.	Applicant is given one month, or thirty (30) days, whichever is longer, from the mail date of this notice to supply the corrected section of the non-compliant amendment in compliance with 37 CFR 1.121, if the non-compliant amendment is one of the following: a preliminary amendment, a non-final amendment (including a submission for a request for continued examination (RCE) under 37 CFR 1.114), a supplemental amendment filed within a suspension period under 37 CFR 1.103(a) or (c), and an amendment filed in response to a <i>Quayle</i> action.
	Extensions of time are available under 37 CFR 1.136(a) only if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action.
	Failure to timely respond to this notice will result in: Abandonment of the application if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action; or Non-entry of the amendment if the non-compliant amendment is a preliminary amendment or supplemental amendment.



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